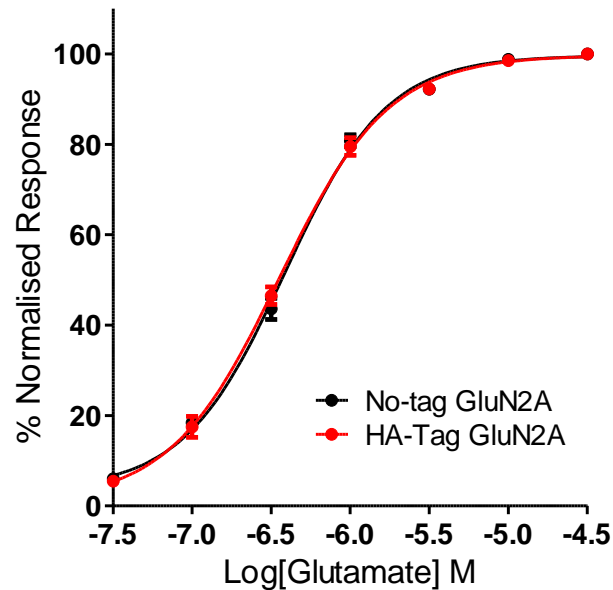


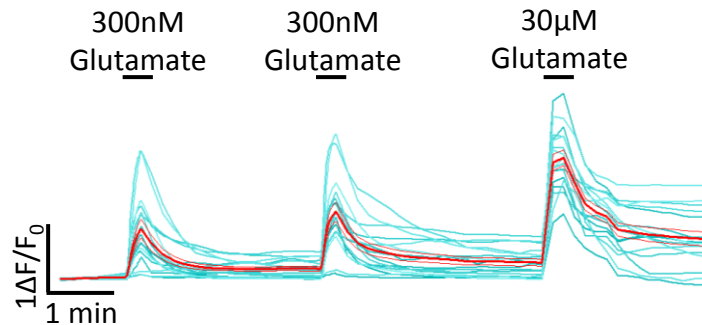
Epilepsy-associated *GRIN2A* mutations reduce NMDA receptor trafficking and agonist potency – molecular profiling and functional rescue

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Supplementary Figure S1

Normalised concentration response curves (CRCs) to increasing concentrations of glutamate from single cell calcium-flux imaging of HEK cells transiently co-transfected with *GRIN1* and HA-tagged *GRIN2A*, or *GRIN1* and no-tag *GRIN2A*. Graphs show there is no difference in the response to glutamate when the HA-tag is added to the plasmid.



Supplementary Figure S2

Example of single cell calcium imaging traces of HEK transfected with *GRIN1* and WT *GRIN2A* plasmids responding to repeated addition of 300nM glutamate, followed by 30μM Glutamate. There is no significant difference between the repeated additions of 300nM glutamate. Individual cell traces displayed in cyan and the mean response shown in red